

10-15-01

A

**UTILITY FRONT
APPLICATION TRANSMITTAL**
(Only for new nonprovisional applications
under 37 CFR 1.53(b))

Attorney
Docket No.

Total Pages

First Named Inventor or Application Identifier

Gianpietro Benedetti

Express Mail Label No. EL846054510US

Check Box, if applicable [] Duplicate

APPLICATION ELEMENTS FOR:

**METHOD AND APPARATUS FOR IN-LINE
HEAT TREATMENT OF HOT ROLLED STOCK**

ADDRESS TO: Commissioner for Patents
BOX PATENT APPLICATIONS
Washington, D.C. 20231

1. [X] Fee Transmittal Form (Incorporated within this form)
(Submit an original and a duplicate for fee processing)
2. [XX] Specification Total Pages [35]
3. [XX] Drawing(s) (35 USC 113) Total Sheets [18]
4. [XX] Oath or Declaration Total Pages [2]
 - a. [] Newly executed (original or copy)
 - b. [XX] Copy from prior application (37 CFR 1.63(d)
(for continuation/divisional with Box 17 completed).
 - i. [] Deletion of Inventor(s)
Signed statement attached deleting inventor(s) named in prior application,
see 37 CFR 1.63(d)(2) and 1.33(b).
5. [XX] Incorporation by reference (useable if box 4b is checked)
The entire disclosure of the prior application, from which a copy
of the oath or declaration is supplied under Box 4b, is
considered as being part of the disclosure of the accompanying
application and is hereby incorporated by reference therein.
6. [] Microfiche Computer Program (Appendix)
7. [] Nucleotide and/or Amino Acid Sequence Submission (if applicable,
all necessary)
 - a. [] Computer Readable Copy
 - b. [] Paper Copy (identical to computer copy)
 - c. [] Statement Verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. [] Assignment Papers (cover sheet and document(s))
9. [] 37 CFR 3.73(b) Statement (when there is an assignee)
[XX] Power of Attorney

11017 U.S. PTO
09/27/2009

10/13/01

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10. ☐ English translation Document (if applicable)
11. ☒ Information Disclosure Statement ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
14. ☐ Small Entity Status is claimed
15. ☐ Claim for Convention Priority ☐ Certified copy of
Priority Document(s)

a. Priority of _____ application no. _____
filed on _____ is claimed under 35 USC 119.

The certified copies/copy have/has been filed in prior
application Serial No. _____.

(For Continuing Applications, if applicable).

16. ☐ Other _____

17. If a CONTINUING APPLICATION, check appropriate box and supply the
requisite information:

☐ Continuation ☒ Divisional ☐ Continuation-in-part
(CIP) of prior application no. 09 / 315,848

FEE TRANSMITTAL	Number Filed	Number Extra	Rate	Basic Fee
The filing fee is calculated below				\$740.00
Total Claims	10 - 20		x \$18.00	
Independent Claims	1 - 3		x \$84.00	
Multiple Dependent Claims			\$280.00	
			Basic Filing Fee	\$740.00
Reduction by 1/2 for small entity				
Fee for recording enclosed Assignment			\$40.00	
TOTAL				\$740.00

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[] A check in the amount of _____ is enclosed to cover the
filing fee of _____ and the assignment recordation fee of
_____.

[] This application is being filed informally. The filing fee is
thereby deferred.

[XX] Please charge our Deposit Account No. 16-0485 in the total amount of
\$740.00 to cover the filing fee. A duplicate of this sheet is
attached.

[XX] The Commissioner is hereby authorized to charge payment for any
additional filing fees required under 37 CFR 1.16 or credit any
overpayment to Deposit Account No. 16-0485. A duplicate of this
sheet is attached.

18. CORRESPONDENCE ADDRESS



09979

PATENT TRADEMARK OFFICE

SUBMITTED BY

Typed or Printed Name James N. Baker

Reg. No. 40,899

Signature

Date: October 12, 2001

ARMSTRONG, WESTERMAN, HATTORI
MCLELAND & NAUGHTON
Law & Finance Building
Suite 707
429 Fourth Avenue
Pittsburgh, PA 15219
Telephone: (412) 281-2931
Facsimile: (412) 281-1821

Figure 1

Diagram illustrating the hierarchical structure of the proposed model. The diagram shows a sequence of layers from top to bottom:

- Input Layer:** A vector of size n .
- Hidden Layers:** A series of hidden layers, each containing nodes connected by weights.
- Output Layer:** A single node representing the final output.

The diagram also includes labels for various components such as "Input", "Hidden", and "Output", along with mathematical symbols like σ , ϕ , and ψ indicating different activation functions or transformations applied at different stages.

CERTIFICATE OF MAILING

Express Mailing Label No. EL846054510US

I hereby certify that, on the 12th day of October, 2001, the attached Divisional Application was deposited with the United States Postal Service as Express Mail utilizing the Express Mail Post Office to Addressee Service, postage pre-paid, addressed to:

BOX PATENT APPLICATION

COMMISSIONER FOR PATENTS

Washington, D.C. 20231

Reeth M. Brake
(Signature)

Ruth M. Brake

October 12, 2001